M. A. R. 57 (Rule 116)

Measurement Book

No. B 488931

Reference to last Measurement 8

Name No. First & final Bill

Name of Work Improvements to main & cross roads at Ajjanadhalli temple From ..... To .....

Name of Contractor of nature of Agency Road in ward no-13. Shettyhalli sub division.

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
	2	3	4	5	6	7	8
	Name of work:- Improvements to main & cross roads at Ajjanadhalli temple road in ward No-13 in Shettyhalli sub divis						
	Est cost :- Rs 25.00 lakhs						
	Job code:- 013-16-000036					P code - 3089.	
	A/A	CE/02/AS/01/16-17				Dt 28.04.2016	
	T/S	CE/02/TS/07/16-17				Dt 28.04.16.	
	W/O	EE/00/00/98/16-17				Dt 23.12.16	
	Cont :- Sri G. Ashwathappa, Bangalore.						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Refer to Measu
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	
1)	Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto ~~Complete~~ as per the specification.						
	Qty B/F from P.NO 488993/2 of this MB is...					243.90cum	
	Qty upto 125% is 182.25cm CM 250.00/cum						45563=
	Qty above 125% is 61.65 cum CM 250.00/cum						15413=0
2)	providing and laying in position PCC of nominal mix M-10 OPC cement @ 220 kgs with 40mm & down size graded granite metal machine						

Measurement Book No. B 488932

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
	2	3	4	5	6	7	8
	cut complete as per specification.						
	Qty B/F from P.No 488994 of this MB is.....					36.59 cum	
	Qty up to 12.5% is @ Rs 5000/cum					30.37	E.E. (D.D.) 151850=00
	Qty above 12.5% is @ Rs 5000/cum					6.22	31075=00 31100-00
2)	providing and laying in position Reinforced cement Concrete of Design mix M20 with OPC cement @ 320 kgs with norms of down size						

Reference to last Measurement 8

divary

up to 2m

563=00

13=00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	graded granite metal C/A @ 0.69 cu.m per ton specification.					@ Estimation	
	out complete as per the specification of this NB's						
	Qty B/F from P.NO 488995					37.15 cum.	
	side wall main Road	2 X 2	24.7	0.15	0.75	11.12	
		2 X 2	25.50	0.15	0.75	11.47	
		2 X 2	19.80	0.15	0.75	8.91	
		2 X 2	8.50	0.15	0.75	3.82	
		1 X 2	30.00	0.15	0.75	6.75	
		1 X 2	8.00	0.15	0.75	1.80	
		2 X 2	30.00	0.15	0.75	13.50	
					0.75	3.60	

E.E. (D.D.)

M. A. R. 57 (Rule 116)

Measurement Book

No. B 488933

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
	2	3	4	5	6	7	8
			qty up to 12½% is @ 4500/cum			84.37 cum	379665=00
			qty above 12½% is @ 4500/cum			13.19 cum	59355=00
	Providing T.M.T steel Reinforcement for RCC work including straightening cutting bending placing in position lapping welding required tying with binding wire						

Reference to last Measurement 8

E.E. (D.D.)

Date	Full description, etc, of work	Dimensions				Contents	Measurements
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	
	cut complete as per the specification.						
	qty B/F from P.NO 488996 of this MB 14..					53.66	qty
	qty up to 125% in ..					50.60	
					CM	7200/cu	364320=00
	qty above 125% in ..					3.06	
					CM	7200/cu	22018=00
							22032=00
5)	providing and removing centering shuttering strutting propping etc. removal of the work for vertical surface such as way at any thickness cut complete as per the specification.						

Reference to last Measurement 8

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
	2	3	4	5	6	7	8
	Qty B/F from P.No 48		8996/2	of this	MB is	776 Sqm	
	Qty up to 125% is @ Rs 400.00/cum					360.00	144000=00
	Qty above 125% is @ Rs 400.00/cum					416.00	166400=00
6)	providing & laying reinforcement cement pre cast slabs of size 1:1½:3 using coarse down size graded granite metal						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Remarks
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	
	using HYSD 10 mm dia steel @ 200mm c/c couplers as ~~to be~~ per specification.						
		2	42	0.9	0.6	—	45.36
		2	42	0.9	0.6	—	45.36
		2	33	0.9	0.6	—	35.64
		2	14	0.9	0.6	—	15.12
		1	63	0.9	0.6	—	34.02
		2	63	0.9	0.6	—	68.04
							246.67 sqm
	Qty limited to 240.30 sqm						
	Qty up to 125 %.						148.50
						Cmy 1600/sqm	237600

M. A. R. 57 (Rule 116)
Measurement Book

No. B 488935

Reference to last Measurement 8

No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
	2	Number 3	Length 4	Breadth 5	Depth 6	7	8
				Qty above 12½%	M	91.80 Sqm	146880=00
				@ Rs	1600.00/Sqm		
	Earth work Excavation and forming in embankment by manual means in ordinary soil including breaking of clods spreading and complete as per specification.						
	Qty B/F from P.No 438997/2 of this MB is					75.50 cum	
				Qty upto 12½% is		75.50 cum	
				@ Rs	200.00/cum		15100=00

7600=00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
8)	providing granite slabs selected quality roughly dressed & fixed in cm (1:6 including fixing curing etc complete as per specification					nil	nil
9)	construction of granular sub base of grading II materials by providing close graded material mixing in a mechanical mix plant at one carriage of mixed material etc complete as per the specification					nil	nil

M. A. R. 57 (Rule 116)
Measurement Book

No. B 488936

Reference to last Measurement 8

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression if any during rolling at complete as per specification.						
	Qty B/F from P.No 488948 of this MB is.					302.00 Sq	
	@ Rs 6.00/Sq						1812=00
	providing laying spreading and compacting graded stone aggregates to wet mix macadam specification including pre mixing the material						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	with water at OMC in mechanical mix plant cut complete as per specification.						
	Qty B/F from P.No 488999 of this MB					60.40 Cum	
	Qty up to 125% @ Rs 1400.00/cum					60.40 cum	84560
12)	providing and applying prime coat with SS Bitumen emulsion on prepared surface of granular bay including cleaning of road surface and spraying prime coat at the rate of 0.6 kg/sqm cut co m						

M. A. R. 57 (Rule 116)
Measurement Book

No. B 488937

Reference to last Measurement 8

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
	2	3	4	5	6	7	8
	qty same as that of qty no (10) is - - -					302.00 Sqm	
	qty up to 12.5%					302.00 Sqm	9664=00
	@ Rs 32.00/Sqm						
	15) cleaning the existing black topped surface with brooms soft brushes and finally dusting with old gunny bags and or compressed air to receives bituminous treatment as per the specification.						

4560=00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Ref. to Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	
	main Road	1	15.00	$\frac{8.2+6.2}{2}$	–	108.00	
		1	30.00	$\frac{6.2+6.55}{2}$	–	191.25	
		1	30.06	$\frac{6.55+5.9}{2}$	–	186.75	
		1	30.00	$\frac{5.9+5.8}{2}$	–	175.50	
		1	7.30	5.80	–	42.34	
	1st cross Rds 4/s	1	30.00	$\frac{5.4+5.9}{2}$	–	169.10	
		1	8.00	$\frac{5.7+5.85}{2}$	–	47.00	
	4/s	1	30.00	$\frac{5.2+4.3}{2}$	–	152.25	
		1	10.50	4.30	–	45.12	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 488938

Reference to last Measurement 8

Name No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
	2	3	4	5	6	7	8
	2nd w H/s	1	30.00	$\frac{5.7+4.8}{2}$	—	136.50	
		1	7.80	$\frac{4.8+5.5}{2}$	—	40.17	
	H/s	1	30.00	$\frac{4.4+4.9}{2}$	—	156.00	
		1	20.00	$\frac{4.9+4.2}{2}$	—	71.00	
						1541.00 Sqm	
	Qty limited to 15		33.00 Rm				
	Qty up to 125%					1533.00 Sqm	
	@ Rs 5.00/Sqm						7665=00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	
14)	providing and applying tack coat on the prepared block topped surface at 2.5 kg per 10 sqm heating bitumen in boiler fitted with spray set etc complete as per specification Qty same as that of Item no (13) Vr. 1533.00 sqm Qty 40.00/m						6132
15)	providing and laying bituminous concrete 30-40 mm thickness hot mix plant using crushed aggregate of specified grading premixed with bituminous binder at mix and filler fra						

M. A. R. 57 (Rule 116)
Measurement Book

No. B 488939

Reference to last Measurement 8

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
	2	Number 3	Length 4	Breadth 5	Depth 6	7	8
	Earth complete as per true specification.						
	Main Road.	1	15.00	$\frac{8.2+6.2}{2}$	0.04	4.32	
320=00		1	30.00	$\frac{6.2+6.55}{2}$	0.04	7.65	
		1	30.00	$\frac{6.55+5.9}{2}$	0.04	7.47	
		1	30.00	$\frac{5.9+5.8}{2}$	0.04	7.02	
		1	7.30	5.80	0.04	1.69	
	Cross	1	30.00	$\frac{5.4+5.9}{2}$	0.04	6.78	
		1	8.00	5.90	0.04	1.88	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	
	R/S	1	30.00	$\frac{5.2+4.3}{2}$	0.04	6.09	
		1	10.50	4.30	0.04	1.80	
	2nd R/S	1	30.00	$\frac{5.7+4.8}{2}$	0.04	5.46	
		1	7.80	$\frac{4.8+5.5}{2}$	0.04	1.61	
	R/S	1	30.00	$\frac{4.4+4.9}{2}$	0.04	6.24	
		1	20.00	$\frac{4.9+4.2}{2}$	0.04	3.64	
				total		61.65 cum.	
	Qty limited to 61.52 cum						
	as up to 15% i					61.52 cum	
	cy 6000.00/cu						3691.20

M. A. R. 57 (Rule 116)
Measurement Book

No. B

488940

Reference to last Measurement 8

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
	2	3	4	5	6	7	8
	carriage of mixed material 10 kms lead item sl no (3) @ Rs 5.20 per cum/km Qty same vide item (4) i.e 53.66 @ Rs 100.00/cum					53.66	5366 = W
	disposal of debris to the final place of disposal with all lead & lift and as directed by the engineer incharge of the work						

1120=0K

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Ref. to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	cut complete as per the specification						
	qty same as Item no (1) in --					243.90 cu.m	
						qty 170.00/cu.m	41463 =
							2360246 =
						Rate	qty 23,602.00 =
	Rupees twenty three lakhs sixty thousand two hundred only						
	certificate:						
	i) the work is executed satisfactorily						
	ii) all the debris have been cleared						
	iii) the work spot coming in abrupt bottom						
	Done						
	Dt 27/2/17						

M. A. R. 57 (Rule 116)
Measurement Book

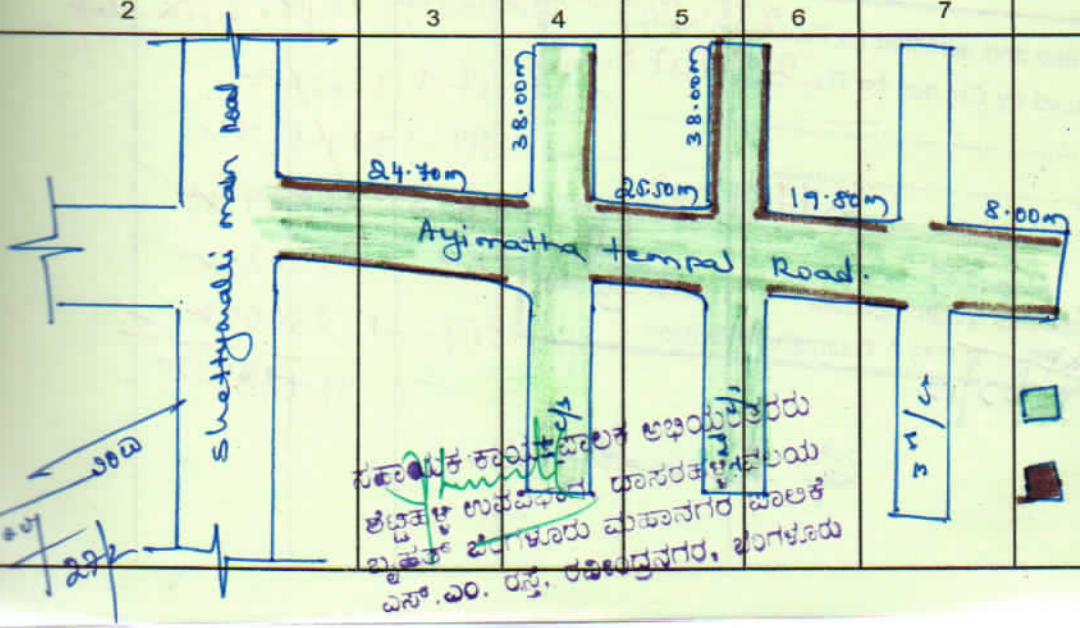
No. B 488941

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
	2	3	4	5	6	7	8



ಸರ್ಕಾರಿಕ ಕಾಮಗಾರಿಗಳಲ್ಲಿ ಅಭಿಯುಕ್ತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪಪಂಥದ ಮಾಸರಕಟ್ಟೆಯಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರಾಜೇಂದ್ರನಗರ, ಬೆಂಗಳೂರು

MEASUREMENT BOOK

Date	etc, of work	Dimensions				Contents	Ref. to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8

1st and final Bill Amount → 236020/- Limited to as per work slip.

Audited and admitted for Rs. 236020/-
Passed by Cheque for Rs. 219426 -00
(.....)
by adjustment Rs. 16781 -00
Accounts Superintendent
Exe. Engineer
K.P.W.S. Nasarahalli Division
28/02/17

NT → 23602-00
VAT → 94408 -00
LR → 23809-00
Lwc → 23602-00
CBF → 2360-00
16781-00

G. Accountant